

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended): A system for uploading frame data to system memory, the system comprising:

a CPU coupled to the system memory and configured to execute an application program,

the CPU executing a Transmission Control Protocol (TCP) stack which includes code to complete at least some TCP processing;

a hardware subsystem preconfigured to process all frames related to one or more connections delegated by the TCP stack to produce frame data and upload the frame data to a portion of system memory allocated to the application program; and

the system memory including a connection table (CT) storing data for all active connections with system including delegated connections, reads and writes to the CT being made directly through the hardware,

the hardware subsystem being further preconfigured to request legacy processing by the TCP stack of ~~any of~~ the frames of the delegated connections.

2. (Original): The system of claim 1, wherein the frame data is payload data.

3. (Currently Amended): The system of claim 1, wherein [[a]] the TCP Stack provides the hardware with a physical address corresponding to a user buffer.

4. (Currently Amended): The system of claim 1, wherein the hardware is configured to process frames to produce partially processed frame data and upload at least a portion of the partially processed frame data to a legacy buffer, the hardware maintaining the CT entry point for each received packet.

5. (Original): The system of claim 4, wherein the legacy buffer is stored in a portion of system memory allocated to a software driver.

6. (Currently Amended): The system of claim 2, wherein the hardware is configured to upload at least a portion of the payload data to a legacy buffer, the legacy buffer is stored in a portion of system memory allocated to a software driver.

7. (Cancel)

8. (Original): The system of claim 6, wherein a software driver provides the hardware with a tag corresponding to a location of the legacy buffer.

9. (Original): The system of claim 7, wherein the hardware is configured to transmit the tag to the software driver.

10. (Currently Amended): A method of uploading frame data including Transmission Control Protocol (TCP) payload data to system memory, the method comprising:

processing a frame to produce frame data;

uploading the frame data to either a portion of system memory comprising a user buffer allocated to an application program or a legacy buffer in the system memory for separate TCP processing by a TCP stack executing on a CPU, depending on whether the user buffer is available[.]; and

utilizing hardware separate from the CPU which does the TCP processing to partially process the frame and determine whether the frame was delegated by the separate TCP processing.

11 – 20. (Cancelled)

21. (Previously Presented): The system of claim 1 wherein the hardware is configured to pause incoming frame data to determine whether a frame is invalid , the invalid frame being stored in the legacy buffer for legacy processing.

22. (Previously Presented): The system of claim 4 wherein the TCP stack is configured to process the frame data up loaded to the legacy buffer by the hardware.

23. (Cancelled)

24. (Currently Amended): A method as claimed in claim [[23]] 10 wherein the TCP stack completes processing of the partially processed frame stored in the legacy buffer.
25. (Previously Presented): A method as claimed in claim 24 wherein the partial processing of the frame produces partially processed frame and header data.
26. (Previously Presented): A method as in claim 10 wherein the user buffer is defined as not available when the processed frame portion exceeds a start up limit value associated with the delegated connection carrying the frame being processed.
27. (Currently Amended): A method as in claim 10 wherein the uploaded frame data includes TCP payload data.
28. (New): A system as in claim 1 wherein the hardware accesses the CT using the distribution port field of a frame as a direct index into the CT.